

SEQUENCE LISTING

**SEQ ID NO:1**

human IRAK-4 amino acid sequence

5 MNKPITPSTYVRCLNVGLIRKLSDFIDPQEGWKKLAVAIIKKPSGDDRYNQFHIRRF  
EALLQTGKSPTSELLFDWGTTNCTAGDLVDLLIQNEFFAPASLLPDAVPKTANT  
LPSKEAITVQQKQMPFCDKDRMLTPVNLEQSYMPPDSSSPENKSLEVSDFRH  
SFSFYELKNVTNNFDERPISVGGNKMGEGGFGVVYKGYVNNTTVAVKKLAAMV  
DITTEELKQQFDQEIKVMAKCQHENLVELLGFSSDGDDLCLVYVYMPNGSLLDR  
10 LSCLDGTPPLSWHMRCKIAQGAANGINFLHENHHIHRDIKSANILLDEAFTAKISD  
FGLARASEKFAQTVMTSRIVGTTAYMAPEALRGEITPKSDIYSFGVVLLEITGLPA  
VDEHREPQLLDIKEEIEEEKTIEDYIDKKMNDADSTSVEAMYSVASQCLHEKK  
NKRPDIIKKVQQQLQEMTAS

15

**SEQ ID NO:2**

human IRAK-4 cDNA sequence

ATGAACAAACCCATAACACCATCACACATATGTGCGCTGCCTCAATGTTGGACT  
20 AATTAGGAAGCTGTCAGATTATTGATCCTCAAGAAGGATGGAAGAAGTTA  
GCTGTAGCTATTAAAAAACCATCTGGTGATGATAGATACAATCAGTTCACAT  
AAGGAGATTGAAGCATTACTCAAACCTGGAAAAAGTCCCACCTCTGAATTA  
CTGTTGACTGGGGCACCACAAATTGCACAGCTGGTGATCTTGTGGATCTTT  
GATCCAAAATGAATTGGCTCCTGCGAGTCTTGCTCCAGATGCTGTTCC  
25 CAAAACGTAAATACACTACCTCTAAAGAAGCTATAACAGTTCAGCAAAAA  
CAGATGCCTTCTGTGACAAAGACAGGACATTGATGACACCTGTGCAGAAC  
TTGAACAAAGCTATATGCCACCTGACTCCTCAAGTCCAGAAAATAAGTT  
AGAAGTTAGTGATACACGTTTACAGTTTCATTGAAATTGAAGAATG  
TCACAAATAACTTGATGAACGACCCATTCTGTTGGTGGTAATAAAATGGGA  
30 GAGGGAGGATTGGAGTTGTATATAAAGGCTACGTAAATAACACAACTGTGG  
CAGTGAAGAAGCTTGCAGCAATGGTGACATTACTACTGAAGAACTGAAACA  
GCAGTTGATCAAGAAATAAAAGTAATGGCAAAGTGTCAACATGAAAACCTTA  
GTAGAACTACTGGTTCTCAAGTGTGAGATGGAGATGACCTCTGCTTAGTATG  
TTACATGCCTAATGGTCATTGCTAGACAGACTCTGCTTGGATGGTACTC

CAACACTTCTGGCACATGAGATGCAAGATTGCTCAGGGTGCAGCTAATGGC  
ATCAATTTCTACATGAAAATCATCATATTGAGATATTAAAAGTGCAA  
TATCTTACTGGATGAAGCTTTACTGCTAAAATATCTGACTTGGCCTGCAC  
5 GGGCTCTGAGAAGTTGCCAGACAGTCATGACTAGCAGAATTGTGGAAC  
AACAGCTTATATGGCACCAGAAGCTTGCCTGGAGAAATAACACCCAAATCT  
GATATTACAGCTTGGTGTGGTTACTAGAAATAATACTGGACTCCAGC  
TGTGGATGAACACCGTGAACCTCAGTTATTGCTAGATATTAAAGAAGAAATT  
GAAGATGAAGAAAAGACAATTGAAGATTATATTGATAAAAAGATGAATGAT  
10 GCTGATTCCACTTCAGTTGAAGCTATGTAUTCTGTTGCTAGTCATGTCTGCAT  
GAAAAGAAAAATAAGAGACCAGACATTAAGAAGGTTCAACAGCTGCTGCAA  
GAGATGACAGCTTCTAA

**SEQ ID NO:3**

15 murine IRAK-4 amino acid sequence

MNKPLTPSTYIRNLNVGILRKLSDFIDPQEGWKKLAVAIIKKPSGDDRYNQFHRRF  
EALLQTGKSPTCELLFDWGTTNCTVGDLVDLLVQIELFAPATLLLDAVPQTVKS  
LPPREAATVAQTHGPCQEKDRTSVMPPMPKLEHSCEPPDSSSPDNRSEESSDTRFH  
20 SFSFHELKSITNNFDEQPASAGGNRMGEFFGVVYKGCVNNTIVAVKKLGAMVE  
ISTEELKQQFDQEIKVMATCQHENLVELLGFSSDSDNLCLVAYMPNGSLLDRSL  
CLDGTPPLSWHTRCKVAQGTANGIRFLHENHHIHRDIKSANILLDKDFTAKISDFG  
LARASARLAQTVMTSRIVGTTAYMAPEALRGEITPKSDIYSFGVVLELITGLAAV  
DENREPQLLDIKEEIIEEKTIEDYTDEKMSDADPASVEAMYSAASQCLHEKKN  
25 RRPDIAKVQQLLQEMSA

**SEQ ID NO:4**

mouse IRAK-4 cDNA sequence

30 GCGGCCGCGTCGACATGCCCGGTGACCCGCAGCATCCCGATCGCAGGCAGT  
CTGAAGTCGCCCTGGTGGCCTGCGTCCACCCCCGAGTCCTGCCGGACGT  
GGCAGGGACGCCGATGCCCTGTCCAGGAAGCGAGGGACGTCCGAGAGGAAG  
TAGAAGATGAACAAGCCGTTGACACCACATCGACATACATCGAACCTTAATG  
TGGGGATCCTTAGGAAGCTGTCGGATTTATTGATCCTCAAGAAGGGTGGAA

GAAATTAGCAGTAGCTATCAAAAAGCCGTCCGGCGACGACAGATAACAATCAG  
TTCCATATAAGGAGATTCGAAGCCTTACTTCAGACCAGGGAAAGAGCCCCACCT  
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GATCTACTGGTCCAGATTGAGCTGTTGCCACTCTCCTGCTGCCGG  
5 TGCCGTTCCCCAACCGTCAAAAGCCTGCCTCCTAGAGAAGCGGCAACAGTG  
GCACAAACACACGGCCTGTCAGGAAAAGGACAGGACATCCGTAATGCCTA  
TGCCGAAGCTAGAACACAGCTGCGAGCCACCGGACTCCTCAAGCCCAGACAA  
CAGAAGTGTAGAGTCCAGCGACACTCGGTTCCACAGCTTCTCGTTCCATGAAC  
TGAAGAGCATCACAAACAACCTCGACGAGCAACCCGCGTCTGCCGGTGGCAA  
10 CCGGATGGGAGAGGGGGGATTGGAGTGGTGTACAAGGGCTGTGAACAAAC  
ACCATCGTGGCGGTGAAGAACGCTGGAGCGATGGTTGAAATCAGTACTGAAG  
AACTAAAGCAACAGTTGATCAAGAAATTAAAGTAATGGCAACGTGTCAGCA  
CGAGAACCTGGTGGAGCTGCTCGGCTTCTCCAGCGACAGCGACAACCTGTGC  
TTAGTGTATGCTTACATGCCAACGGGTCTTGCTGGACAGACTGTCCTGCCT  
15 GGATGGTACACCACCGCTTCCCTGGCACACAAGGTGCAAGGTTGCTCAGGGG  
ACAGCAAATGGCATCAGGTTCTGCATGAAAATCATCACATTAGAGATA  
TTAAAAGTCAAATATCTTACTAGACAAAGACTTACTGCCAAATATCTGAC  
TTTGGGCTTGCACGGCTTCCGGCAAGGCTAGCGCAGACGGTCATGACCAGCC  
GAATCGTGGCACAACGGCTTACATGGCACCCGAAGCTTGCAGGGAGAAAT  
20 AACACCCAAATCTGACATCTACAGCTCGCGTGGTCTGTTGGAGCTGATAA  
CCGGGCTGGCGCTGATGAAAACCGTGAACCTCAACTACTGCTGGATAT  
TAAAGAAGAGATTGAAGATGAAGAGAACGATTGAAGATTACACGGATGA  
GAAGATGAGCGATGCGGACCCCTGCTCGGTGGAAGCAATGTACTCTGCTGCT  
AGCCAGTGTCTGCATGAGAAGAAAAACAGACGGCCAGACATTGCAAAGGTT  
25 AACAGCTGCTACAAGAGATGTCTGCTTAA

**SEQ ID NO:5**

Sense primer for amplification of human IRAK-4

30

ATGAACAAACCCATAACACCATCAACATATGTGC

**SEQ ID NO:6**

Antisense primer for amplification of human IRAK-4

TTAAGAAGCTGTCATCTCTTGCAGC